

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052128 A3

(51) International Patent Classification⁷ : C07H 21/04,
A61K 48/00

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW

(21) International Application Number:
PCT/US2004/039535

(22) International Filing Date:
24 November 2004 (24.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/525,076 25 November 2003 (25.11.2003) US

(71) Applicant (for all designated States except US): ARGOS
THERAPEUTICS, INC. [US/US]; 4233 Technology
Drive, Durham, NC 27704 (US).

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

Published:

(75) Inventor/Applicant (for US only): TCHEREPANOVA,
Irina [US/US]; 8923 Charlottes Mountain Road, Rougemont,
NC 27572 (US).

— with international search report

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(74) Agent: TAYLOR, Aries, A., Jr.; Jenkins, Wilson & Taylor, P.A., Suite 1400 University Tower, 3100 Tower Boulevard, Durham, NC 27707 (US).

(88) Date of publication of the international search report:

23 February 2006

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/052128 A3

(54) Title: mRNA TRANSFECTED ANTIGEN PRESENTING CELLS

(57) Abstract: A method of amplifying RNA to obtain RNA molecules that are predominantly in the sense orientation and essentially devoid of RNA molecules that are in the anti-sense orientation. A method of transfecting antigen presenting cells with a composition comprising sense RNA encoding immunogenic antigens and essentially devoid of antisense RNA and dsRNA is also provided as well as dendritic cells prepared according to the method.